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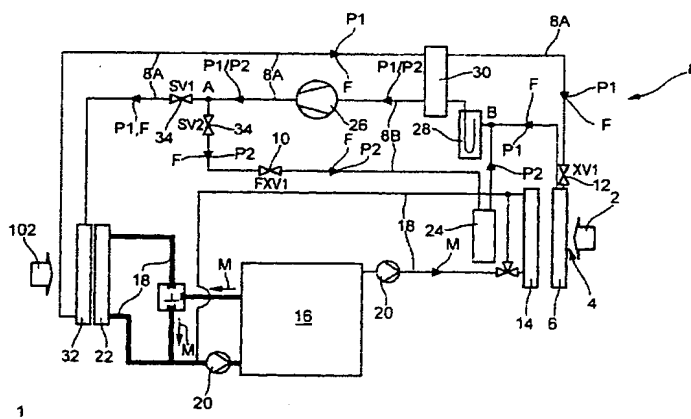
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(54) Title: AIR CONDITIONING SYSTEM FOR A VEHICLE AND ASSOCIATED OPERATING METHOD

(54) Bezeichnung: KLIMAAANLAGE FÜR EIN FAHRZEUG UND ZUGEHÖRIGES BETRIEBSVERFAHREN



(57) Abstract: The invention relates to a simplified air conditioning system (1) for a motor vehicle, comprising a flow channel (4) for an air stream (2) to be conditioned. According to the invention, said system is provided with a circuit (8) which can be operated in a cooling mode or in a heating mode and is used to circulate a fluid (F) for conditioning the air stream (2). In the heating mode, the circuit comprises an compressor (26), a heat exchanger (24), and an intermediate reservoir (28), and is controlled in such a way that the suction pressure of the compressor (26) at least partially exceeds a saturated vapour pressure in the circuit, caused by the ambient temperature.

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Declaration under Rule 4.17

- *Of inventorship (Rule 4.17(iv)) for the following designation US.*

(57) **Zusammenfassung:** Bei einer vereinfachten Klimaanlage (1) für ein Kraftfahrzeug mit einem Strömungskanal (4) für einen zu konditionierenden Luftstrom (2) ist erfindungsgemäss ein im Kühl- oder Heizmodus betriebbarer Kreislauf (8) zur Zirkulation eines Fluids (F) zur Konditionierung des Luftstroms (2) vorgesehen, wobei der Kreislauf im Heizmodus einen Verdichter (26), einen Wärmeübertrager (24) und einen Zwischenspeicher (28) umfasst, wobei der Kreislauf derart gesteuert wird, dass der Ansaugdruck des Verdichters (26) einen durch die Umgebungstemperatur bedingten Sättigungsdruck im Kreislauf zumindest teilweise übersteigt.